PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) See Form PCT/ISA/210 Date of mailing (day/month/year) (sheet 2) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 34534/PCT International filing date (day/month/year) Priority date (day/month/year) International application No. 28.10.2003 PCT/FR2004/002780 28.10.2004 International Patent Classification (IPC) or both national classification and IPC A61K31/37, A61K31/795, A61K47/96, A61K47/42, A61P29/00, A61P17/02 Applicant ORGANES TISSUS REGENERATION REPARATION REMPLACEMENT - OTR3 This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Certain observations on the international application Box No. VIII **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/EP Telephone No.

Facsimile No.

Вох	k No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrial applicable have not been examined in respect of:	ılly
the entire international application	:
claims Nos. 1-17 (in part)	
because:	
the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):	-
See supplemental sheet	
the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):	-
the claims, or said claims Nos are so inadequately supporte by the description that no meaningful opinion could be formed.	d
no international search report has been established for said claims Nos. 1-17 (in part)	_
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administra Instructions in that:	tive
the written form has not been furnished	
does not comply with the standard	
the computer readable form has not been furnished does not comply with the standard	
the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with technical requirements provided for in Annex C-bis of the Administrative Instructions.	the
See Supplemental Box for further details.	

ox No	. V	Reasoned statemen citations and explan	t under Runations suj	ale 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; oporting such statement	
St	atement	1			
	Novel	ty (N)	Claims	_	YES
			Claims	1-17	_ NO
	Invent	ive step (IS)	Claims		YES
				1-17	_ NO
	Indust	rial applicability (IA)	Claims	1-17	_ YES
			Claims		_ ^{NO}
С	itations	and explanations:			
Т	he a	ttention of th	he app	licant is drawn to the fact that the present	
0	pini	on issued in	relati	on to novelty, inventive step and industrial	
a	ppli	cability is v	alid o	nly for those elements for which an	
i	nter	national sear	ch rep	ort has been drawn up (see Box III).	
1	Ref	erence is made	e to t	he following documents:	
D	1:	FR 2 781 485	A (BA	RRITAULT DENIS) 28 January 2000 (2000-01-28)	
D	2:			"A new approach to treat tissue destruction	
				ith chemically modified dextran polymers.	
		"THE FASEB J	OURNAL	: OFFICIAL PUBLICATION OF THE FEDERATION OF	•
		AMERICAN SOC	IETIES	FOR EXPERIMENTAL BIOLOGY, APR 2003,	
		vol. 17, no.	6, Ap	ril 2003 (2003-04), pages 644-651,	
		XP008059847	issn:	1530-6860	
D	3:	EP-A-0 093 4	89 (RI	CHTER GEDEON VEGYESZETI GYAR R.T) 9 November	
		1983 (1983-1	1-09)		
D	4:	JEANBAT-MIMA	UD VIV	IANE ET AL: "Bioactive functionalized	
		polymer of m	alic a	cid for bone repair and muscle regeneration"	
		JOURNAL OF B	IOMATE	RIALS SCIENCE POLYMER EDITION, vol. 11, no.	
		9, 2000, pag	es 979	-991, XP008060107 ISSN: 0290-5063	
2	: IND	EPENDENT CLAI	м 1		
2	.1	The present	applic	ation fails to comply with the requirements	
				ce the subject matter of claim 1 does not	
				novelty defined in PCT Article 33(2).	
D	ocum	ent D1 descri	bes (c	laim 1, figures 4-11, page 11 paragraph 5-	

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

page 20 paragraph 3) the use of the compounds of the present application (cf. figures 4-11 and claim 1) for the treatment of various irritations, with an "anti-scarring effect" (page 12 paragraph 2).

Document D2 describes (abstract, page 645, column 1, paragraph 1) the use of "RGTA" compounds (cf. figures 4-11 and claim 1) for the treatment of periodontitis and the destruction of the associated tissues (page 12 paragraph 2), which must be considered as "discomfort".

Document D3 (page 6 paragraph 3, claim 1) describes a treatment for rheumatic pain. The compounds mentioned come under claim 1.

Document D4 (abstract, page 980 paragraph 2, page 990 paragraph 1) describes the regeneration of muscles (which must be considered as "discomfort") under treatment with compounds which come under claim 1.

3 DEPENDENT CLAIMS 2-17

The claims do not contain any features which, in combination with the features of any one of the claims to which they refer, meet the requirements of the PCT in respect of novelty and inventive step (PCT Article 33(2) and (3)).

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box III

The present claims 1-17 relate to a very large variety of compounds, which are defined by the variables (A, a, X, x, Y, y or Z) in the definition of the compounds of formula (I) of claims 1, 7, 8, 10 and 11. However, the description provides only a support under PCT Article 6 and a disclosure under PCT Article 5 for a very limited section of the compounds.

Moreover, claims 1-17 contain so many options, variables and possible permutations that the resulting lack of clarity and conciseness under PCT Article 6 is so great that a meaningful search on the subject matter of the claims becomes impossible: none of the variables (A, a, X, x, Y, y or Z) in the definition of the compounds of formula (I) of claims 1, 7, 8, 10 and 11 is sufficiently clear and limitative to allow a complete and meaningful search. It appears in effect that the possible monomers and substituents, particularly for the monomer A, may vary considerably and are defined by terms which are vague and imprecise (cf. claim 2 "sugars, esters, alcohols, amino acids, nucleotides, nucleic acids or proteins"; claim 6 "R is selected from a linear or branched alkyl, allyl, aryl group").

Claims 3-5 and 8 relate to products which are defined by means of the following parameters: molecular mass or degree of polymerization, degree of substitution - and these parameters, moreover, are defined by unlimited range endpoints. The claims cover all of the compounds having these features, despite the fact that the description only provides a support under PCT Article 6 and a disclosure under PCT Article 5 for a very limited section of the compounds. Moreover, the use of these parameters is considered in the present context to lead to a lack of clarity under PCT Article 6. It is impossible to compare the parameters the applicant has chosen to use with what is disclosed in the prior art.

Moreover, claims 7, 9, 11 define the compounds by referring to

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Supplemental Box

desirable properties, namely "additional biological or physicochemical properties (claim 7)", "improved solubility or lipophilicity" (claim 9), and "therapeutic agents" (claim 11). However, the description does not provide any support and disclosure under PCT Articles 6 and 5 for such a compound possessing this effect or property, and it is not possible for the person skilled in the art to obtain it from his or her general knowledge. The lack of conformity with the requirements as to foundation is such that account has been taken of this for the purpose of carrying out the search relating to the claim and also for determining the scope thereof (PCT Guidelines, 9.19 and 9.20).

Claims 1-12 relate to the treatment of diseases defined by the terms "discomfort, distress, irritations" (claim 1).

However, the description only provides a support under PCT Article 6 and a disclosure under PCT Article 5 which are very limited for these diseases.

Moreover, the use of the definitions leads, in effect, to a lack of clarity under PCT Article 6. It is impossible to determine with certainty and without ambiguity which diseases fall within the definition claimed and which do not; nor is it impossible to carry out limitation to a recognized group of specific diseases. It is therefore impossible to know legitimately the content and the scope of the protection sought.

In the present case, these claims lack clarity, conciseness and support, and the application lacks disclosure, to a point such that a meaningful search on the entire spectrum covered by the claims is impossible.

The search for the first invention has therefore been directed only to those parts of the claims whose subject matter appears to be clear, supported and sufficiently disclosed, namely to biocompatible polymers derived according to claim 1 "RGTA" ("regenerating agents") which were tested (see description page 8 paragraph 7 - page 9 paragraph 1) in relation with the treatment of itches induced by lesions or irritations in a zone of contact with an external medium

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